

In the Claims:

Please amend claims 1 and 8 as follows.

1. (Currently Amended) A set of standards ~~for the temperature calibration of a VTGA~~, comprising:

a plurality of ferromagnetic slugs for the temperature calibration of a vacuum thermogravimetric analyzer (VTGA), each of said ferromagnetic slugs having a Curie temperature wherein the value of said Curie temperature falls within a preselected range of Curie temperature values,

wherein each slug is comprised of an alloy containing an amount of a ferromagnetic constituent and an amount of a non-ferromagnetic constituent, and

wherein the amounts of said ferromagnetic constituent and non-ferromagnetic constituent are selected to provide a ferromagnetic slug having a Curie temperature within said preselected range of Curie temperature values.

2. (Original) A set of standards as in claim 1, wherein said preselected range of Curie temps is between from about 50 C to about 200 C.

3. (Original) A set of standards as in claim 1, wherein said ferromagnetic constituent is selected from the group consisting of Fe, Co, Ni and Gd.

4. (Original) A set standards as in claim 1, wherein said ferromagnetic constituent is Ni and said non-ferromagnetic constituent is selected from the group consisting of Al, Cr, Mo, Ti, W, Mn, Zn and Cu.

5. (Original) A set of standards as in claim 1, wherein said ferromagnetic constituent is Co and said non-ferromagnetic constituent is selected from the group consisting of Cr, and Mo.

6. (Original) A set of standards as in claim 1, wherein said ferromagnetic constituent is Fe and said non-ferromagnetic constituent is selected from the group consisting of Al, Cr, Ti, Mo and Zn.

7. (Original) A set of standards as in claim 1, wherein each of said ferromagnetic slugs are annealed to remove spurious magnetic transitions.

8. (Currently Amended) A set of standards ~~for the temperature calibration of a VTGA~~, comprising:

a plurality of ferromagnetic slugs for the temperature calibration of a vacuum thermogravimetric analyzer (VTGA), each of said ferromagnetic slugs having a Curie temperature wherein the value of said Curie temperature falls within a preselected range of Curie temperature values,

wherein each slug is comprised of a alloy containing Ni and Cu, and

wherein an amount of Cu is within the range of 15% to 28%.

9. (Original) A set of standards as in claim 8, wherein each of said ferromagnetic slugs are annealed to remove spurious magnetic transitions.

10. (Original) A set of standards as in claim 9, wherein each of said ferromagnetic slugs is annealed at approximately 300C for approximately 1 Hr.